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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,004	06/19/2003	Anthony Edward Kelly	KEMP-002	5763
28661 7:	590 12/29/2004		EXAMINER	
SIERRA PATENT GROUP, LTD.			PALMER, PHAN T H	
P O BOX 6149				D . DED NV D . DED
STATELINE, NV 89449			ART UNIT	PAPER NUMBER
			2874	

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/601,004	KELLY ET AL.				
Office Action Summary	Examiner	Art Unit				
	PHAN T.H. PALMER	2874				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Ju	<u>ıne 2003</u> .	·				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) <u>1-30</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) <u>18-30</u> is/are allowed. 6) ☐ Claim(s) <u>1-4 and 8-17</u> is/are rejected. 7) ☐ Claim(s) <u>5-7</u> is/are objected to. 8) ☐ Claim(s) <u>18-30</u> are subject to restriction and/or	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 17 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	,			
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
	,	PHAN T. H. PALMER PRIMARY EXAMINER				
Attachment(s)		1426/2004				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail D	(PTO-413) ate.				
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

1. Applicant's cooperation is requested in correcting any error of which applicant may become aware in the specification.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statement submitted on 06/19/2003, has been considered by the examiner and made of record. See attached form PTO-1449.

Drawings

4. This application has been filed with formal drawings.

Claim Objections

5. Claims 16, and 28 are objected to because of the following informalities: the end of claims 16 and 28 should have period (.). Appropriate correction is required.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in thisOffice action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, and 8-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Forrest et al. (6,381,380 B1).

The Forrest et al. reference discloses in figures 4, a semiconductor optical device (11) comprising:

- an active waveguide (71) having a tapered portion (81); and
- a passive waveguide (61) extending beyond the end of the active waveguide and optically coupled to the tapered portion of the active waveguide, the passive waveguide beyond the end of the active waveguide supporting an optical mode of larger size than the optical mode supported by the active waveguide,
- wherein the tapered portion of the active waveguide is truncated and the active waveguide and the passive waveguide have a separation is 0.5 μm .

With regard to claims 1-4, and 8-17, the Forrest et al reference discloses all the claimed invention. See figure 4, abstract lines 17-20, col. 6, lines 16-49.

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Allowable Subject Matter

7. Claims 5-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The Forrest et al reference does not disclose the limitations of claims 5-7.

Claims 18-30 are allowed.

The Forrest et al reference does not disclose a semiconductor optical device comprising:

- an active waveguide having a tapered portion; and
- a passive waveguide extending beyond the end of the active waveguide and optically coupled to the tapered portion of the active waveguide, the passive waveguide beyond the end of the active waveguide supporting an optical mode of larger size than the optical mode supported by the active waveguide.
- wherein the tapered portion of the active waveguide is truncated and the separation between the active waveguide and the passive waveguide provides a coupling loss between the active waveguide and the passive waveguide which is at most 0.1dB above the minimum coupling loss provided by a device having the same construction except with an optimum separation between the active waveguide and passive waveguide which minimizes the coupling loss between the active waveguide and the passive waveguide.

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CONTACT INFORMATION

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on 4/4 OFF MONDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 12/26/2004

> PHAN T. H. PALMER PRIMARY EXAMINER